



SOME WILD FLOWERS
....OF ANDOVER

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FOR REFERENCE

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Andover Room

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Pease, Arthur Stanley

Some wild flowers of Andover : with
their dates of flowering together
with a list of the ferns of Andover

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Some Wild Flowers of Andover

WITH THEIR DATES OF FLOWERING

TOGETHER WITH A LIST OF

THE FERNS OF ANDOVER

PREPARED BY
ARTHUR STANLEY PEASE

PUBLISHED BY THE
SCHOOL DEPARTMENT

1901

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PREFATORY NOTE

A neighbor of our central schools, one day in early spring, noticed two little boys looking at her lawn. Soon they fell on their knees on the brown sod and one exclaimed excitedly, "I have one", and he held up to his companion's open-eyed gaze a blade of fresh grass. "Teacher said she didn't believe we could find any in Andover yet". "I have one, too", cried the other. "Let's take them to teacher", and with the tender green treasures securely clasped in their fingers, they bounded away toward the school house.

Children are naturalists and poets by nature. But this ingenuous interest in a blade of grass, in every growing thing, needs to be cultivated. These interests strike deepest in childhood. Every true lover of nature, I believe, began to love her in childhood. I have talked with people who were greatly interested in wild flowers, but I have never found one such whose interest did not date from early childhood.

The great interest among many Andover school children which has followed the publishing of "The Birds of Andover", has encouraged the publishing of this little manual of the wild flowers of Andover. Like the former, it has been compiled from the private note-book of a resident of the town, Mr. Arthur Stanley Pease, who has generously put his notes into this form for the benefit of our schools.

It is hoped that the publication of this little book will be justified by the aid it will give our teachers, who are already doing so much to awaken and establish in their pupils, interest in the outdoor world; by serving as a reference book for the children and a model for their notes; and by its service to older pupils not now in school.

G. E. JOHNSON.

Andover, April, 1901.

PRELIMINARY NOTES TO TABLES

1. The following lists contain the common and scientific names of over two hundred plants found in Andover, together with their habitats and the earliest dates of their flowering noted by the compiler in the years 1895, 1896, 1897, and 1900.

2. For the convenience of those whose acquaintance with our flora is but limited, the lists are divided into five groups :

VERY COMMON.

COMMON.

FREQUENT, i. e., often met with, but seldom in abundance.

LOCALLY COMMON, i. e., limited to a few localities, but rather abundant where found at all.

RARE. This class is poorly represented in these lists, as the compiler has had to omit many of our rarer plants for lack of data as to their times of flowering.

3. Under each of these groups the species are arranged, so far as possible, in the order of their flowering.

4. No trees, shrubs, or shrubby plants are included.

5. No species are included which have not been seen in Andover by the compiler, and for which he has not noted the date of flowering in at least one year, consequently the omissions are very numerous.

6. This list extends only to August first, so that it has been thought best entirely to omit the Asters, Goldenrods, and some other genera most of whose species begin to bloom after that date.

7. The scientific names are taken from the sixth edition of Gray's Manual, and the common names, with some omissions and some additions, follow the nomenclature given in that book. To simplify these lists, the names of the families and orders have not been given, but they can easily be found by reference to the Manual.

HABITAT

It is a common idea among many people that woods are the best places in which to look for wild flowers. This idea is erroneous, and especially so in a place like Andover, where most of the woods consist of oak and pine. The variety of wild flowers to be found in such woods cannot for a moment compare with that to be found by our roadsides, in pastures, and, above all, in swamps and bogs. Many of the choicest flowers of our town grow in open bogs, or swamps wooded with spruce or white cedar. Sphagnum bogs, though difficult of access and often dangerous, are very interesting. The boggy and sandy banks of streams and swampy pastures and wet meadows are very profitable hunting-grounds. In sandy regions, like those around Pomp's Pond, many interesting annuals may be found. The weeds and introduced plants on dumps and in cultivated fields include many of great interest, and rare and unusual plants may occasionally be discovered in such localities.

VERY COMMON.

COMMON NAME	SCIENTIFIC NAME
Skunk Cabbage	<i>Symplocarpus fœtidus</i>
Plantain leaved Everlasting	<i>Antennaria plantaginifolia</i>
Bluets. Innocence. Quaker Ladies	<i>Houstonia cœrulea</i>
Cinquefoil	<i>Potentilla Canadensis</i>
Wood Anemone. Wind Flower	<i>Anemone nemorosa</i>
Common Blue Violet	<i>Viola palmata, var. cucullata</i>
Dandelion	<i>Taraxacum officinale</i>
Shepherd's Purse	<i>Capsella Bursa-Pastoris</i>
Chickweed	<i>Stellaria media</i>
Wild Strawberry	<i>Fragaria Virginiana</i>
	<i>Maianthemum Canadense</i>
Sorrel	<i>Rumex Acetosella</i>
Bulbous Crowfoot. Buttercups	<i>Ranunculus bulbosus</i>
Red Clover	<i>Trifolium pratense</i>
Yarrow. Milfoil.	<i>Achillea Millefolium</i>
White Clover	<i>Trifolium repens</i>
Ox-eye or White Daisy	<i>Chrysanthemum Leucanthemum</i>
Wild Carrot. Queen Anne's Lace	<i>Daucus Carota</i>
Yellow Wood-Sorrel	<i>Oxalis corniculata, var. stricta</i>
Cone-flower. Black-eyed Susan	<i>Rudbeckia hirta</i>
Hedge Mustard	<i>Sisymbrium officinale</i>
Fall Dandelion	<i>Leontodon autumnale</i>
Daisy Fleabane	<i>Erigeron strigosus</i>
Silvery Cinquefoil	<i>Potentilla argentea</i>
Partridge-berry	<i>Mitchella repens</i>
Common Milkweed	<i>Asclepias Cornuti</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Swamps		4.3	4.1			4.7	
Dry ground	4.25	4.26	4.24	4.20		4.18	
Pastures	4.27	4.25	4.24	4.20		4.17	
Pastures	5.2	5.5	4.24	4.20		4.22	
Moist thickets	4.25	4.25	4.25	4.29		4.24	
Dry ground	5.2	5.9	4.25	5.2		4.21	
Yards and fields	5.4	5.2	4.28				
Waste grounds	5.4	4.30				4.21	
Damp grounds		5.4	5.26				
Fields	5.7	5.5	5.9	5.13		5.20	
Woods	5.31	5.16	5.15	5.20			
Fields	5.9	5.9	5.9				
Fields	5.14	5.9		5.12			
Fields and meadows	5.19	5.20	6.4	6.3			
Fields	6.6	5.27	5.20				
Fields	6.1	5.23	6.6				
Fields	6.1	5.25	6.1	6.11			
Fields		6.6		6.16			
Damp, shady places				6.7			
Dry fields	6.14	6.18	6.25	6.22			
Waste ground				6.15			
Everywhere	6.15		7.13	7.9			
Fields	6.15			6.19			
Dry ground				6.15			
Dry woods, (especially pine woods).	6.16	6.18	7.9	6.20			
Rich ground		6.19	7.4	6.24			

VERY COMMON.

COMMON NAME	SCIENTIFIC NAME
Evening Primrose	<i>Oenothera biennis</i>
Toad-Flax. Butter and Eggs.	<i>Linaria vulgaris</i>
Purslane	<i>Portulaca oleracea</i>
Chamomile	<i>Anthemis Cotula</i>
Pigweed	<i>Chenopodium album</i>
Plantain	<i>Plantago major</i>
Touch-me-not. Jewel-weed.	<i>Impatiens fulva</i>
Knotweed	<i>Polygonum aviculare</i>
Horse-weed. Butter-weed	<i>Erigeron Canadensis</i>
Pine-weed. Orange-grass.	<i>Hypericum nudicaule</i>
Arrow-leaved Tear-thumb	<i>Polygonum sagittatum</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Dry ground	7.5	6.30	6.19	7.13			
Gravelly soil	7.1	6.23	7.8	7.2			
Gardens, etc.	7.20	7.18	7.8	6.26			
Roadsides	7.6	6.30	7.13	6.30			
Waste ground	7.18			6.30			
Dry ground		7.3	7.7	7.6			
Damp, shady places	7.13	7.16	7.12	7.13			
Gravelly and waste places.				7.13			
Waste places		7.27					
Sandy ground			7.30				
Damp places		7.31					

COMMON.

COMMON NAME	SCIENTIFIC NAME
Early Saxifrage	<i>Saxifraga Virginiensis</i>
Gill-over-the-ground	<i>Nepeta Glechoma</i>
Columbine	<i>Aquilegia Canadensis</i>
Rue Anemone	<i>Anemonella thalictroides</i>
Sweet White Violet	<i>Viola blanda</i>
Bellwort	<i>Oakesia sessilifolia</i>
Jack-in-the-Pulpit. Indian Turnip.	<i>Arisæma triphyllum</i>
Bird-foot Violet	<i>Viola pedata</i>
Swamp Saxifrage	<i>Saxifraga Pennsylvanica</i>
Wild Sarsaparilla	<i>Aralia nudicaulis</i>
Early Meadow-Rue	<i>Thalictrum dioicum</i>
Tall Crowfoot. Buttercups.	<i>Ranunculus acris</i>
Goldthread	<i>Coptis trifolia</i>
Star-flower	<i>Trientalis Americana</i>
Wild Geranium. Crane's-bill.	<i>Geranium maculatum</i>
Solomon's Seal	<i>Polygonatum biflorum</i>
Wild Peppergrass	<i>Lepidium Virginicum</i>
Dwarf Dandelion	<i>Krigia Virginica</i>
Golden Ragwort	<i>Senecio aureus</i>
Yellow Pond-Lily	<i>Nuphar advena</i>
Blue-eyed Grass	<i>Sisyrinchium angustifolium</i>
Celandine	<i>Chelidonium majus</i>
Common Mallow	<i>Malva rotundifolia</i>
English Plantain. Ribgrass.	<i>Plantago lanceolata</i>
Larger Blue Flag. Iris.	<i>Iris versicolor</i>
Nightshade. Bittersweet.	<i>Solanum Dulcamara</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Rocks	5.11	4.25	5.12	5.2			
Damp places		5.6	4.25				
Rocks	5.11	4.26	4.30	5.2			
Woods	5.7	5.6	4.30	4.29			
Damp grounds	5.2	5.9	4.30	5.2			
Low woods	5.16	5.9	5.12	5.6			
Damp woods	5.8	5.6	5.9	5.16			
Sandy soil	5.11	5.9	5.9	5.16			
Swamps	5.13	5.9	5.20	5.20			
Moist woods	5.16	5.9	5.21				
Rocky woods			5.9	5.16			
Meadows		5.30	5.12				
Damp woods		5.13		5.13			
Damp woods		5.13		5.13			
Woods and fields	5.16	5.16	5.15				
Woods	5.13	5.30	5.30	5.26			
Roadsides			5.14				
Sandy fields			5.15	6.18			
Bogs	5.31	5.16	5.20				
Still or stagnant water	5.30	5.16	5.18				
Grassy places	5.25	5.27	5.22				
Damp, waste ground			5.19	5.30			
Roadsides, etc.	5.22	7.20	7.5	6.27			
Fields and yards	6.16	6.1	5.24	6.22			
Wet meadows, etc.	5.31	5.27	6.8	6.9			
Moist shady places	5.27	6.19	6.20				

COMMON.

COMMON NAME	SCIENTIFIC NAME
Shin-leaf. Pyrola.	<i>Pyrola rotundifolia</i>
Rockrose	<i>Helianthemum Canadense</i>
False Solomon's Seal	<i>Smilacina racemosa</i>
Alsike Clover	<i>Trifolium hybridum</i>
Thyme-leaved Speedwell	<i>Veronica serpyllifolia</i>
Purslane Speedwell. Neckweed.	<i>Veronica peregrina</i>
Curled Dock	<i>Rumex crispus</i>
Bouncing Bet	<i>Saponaria officinalis</i>
Sand Spurrey	<i>Buda rubra</i>
Moneywort	<i>Lysimachia nummularia</i>
Marsh St. John's-wort	<i>Elodes campanulata</i>
Self-heal. Heal-all	<i>Brunella vulgaris</i>
Indian Cucumber-root	<i>Medeola Virginiana</i>
Tall Meadow-rue	<i>Thalictrum polygamum</i>
(Norway) Cinquefoil	<i>Potentilla Norvegica</i>
Water Hemlock. [Very poisonous]	<i>Cicuta maculata</i>
Toadflax	<i>Linaria Canadensis</i>
Spreading Dogbane	<i>Apocynum androsaemifolium</i>
Motherwort	<i>Leonurus Cardiaca</i>
Loosestrife	<i>Lysimachia quadrifolia</i>
Rough Bedstraw	<i>Galium asprellum</i>
Lobelia	<i>Lobelia spicata</i>
Mullein	<i>Verbascum Thapsus</i>
St. John's-wort	<i>Hypericum perforatum</i>
Cow-wheat	<i>Melampyrum Americanum</i>
False Indigo	<i>Baptisia tinctoria</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Damp or sandy woods	5.28	6.15	6.19				
Sandy fields	6.7	5.30	6.12				
Moist woods	6.1	6.4	6.6				
Fields and yards	6.15	6.4	6.11	6.15			
Roadsides, etc.				6.4			
Waste grounds				6.4			
Fields and yards	6.15		6.5	6.9			
Roadsides, etc.	6.5	7.5	7.20	7.20			
Gravel walks, etc.				6.11			
Lawns	6.22	6.14	6.25	6.22			
Swamps	6.26	6.14		6.28			
Yards and fields	6.15	6.18	6.19	6.15			
Damp woods				6.15			
Wet meadows and thickets.		6.19	7.8	6.15			
Roadsides				6.15			
Swamps	7.4	6.18	6.17	6.26			
Sandy fields and roadsides.	6.25	6.19	6.23	6.20			
Borders of thickets	6.22	6.19	7.12	6.25			
Waste places	6.22	6.19	7.4	6.30			
Moist or sandy soil			6.24	6.20			
Moist thickets				6.21			
Dry fields	6.24	6.22	7.8	7.1			
Fields	6.22	6.30	7.5	6.25			
Fields	6.24	6.23	7.4	6.25			
Sandy woods	7.8	6.23	6.25	6.25			
Sandy fields, etc.	6.25	6.23	7.11	7.2			

COMMON.

COMMON NAME	SCIENTIFIC NAME
Water Lily	<i>Nymphaea odorata</i>
Water Pennywort	<i>Hydrocotyle Americana</i>
Rabbit foot or Stone Clover	<i>Trifolium arvense</i>
Pickereel-weed	<i>Pontederia cordata</i>
Shin-leaf	<i>Pyrola elliptica</i>
Low Hop-clover	<i>Trifolium procumbens</i>
Loosestrife	<i>Lysimachia stricta</i>
St. John's-wort	<i>Hypericum Canadense</i>
Joe-Pye-weed	<i>Eupatorium purpureum</i>
Canada Thistle	<i>Cnicus arvensis</i>
Low Cudweed	<i>Gnaphalium uliginosum</i>
Milkwort	<i>Polygala sanguinea</i>
Indian Tobacco	<i>Lobelia inflata</i>
Enchanter's Nightshade	<i>Circæa Lutetiana</i>
Marsh Bellflower	<i>Campanula aparinoides</i>
False Pimpernel	<i>Illysanthes riparia</i>
Arrowhead	<i>Sagittaria variabilis</i>
Pokeweed	<i>Phytolacca decandra</i>
Hog Peanut	<i>Amphicarpæa monoica</i>
White Vervain	<i>Verbena urticæfolia</i>
Wild Lettuce	<i>Lactuca Canadensis</i>
Blue Vervain	<i>Verbena hastata</i>
Thoroughwort. Boneset.	<i>Eupatorium perfoliatum</i>
Live-for-ever. Aaron's Rod.	<i>Sedum Telephium</i>
Water Horehound	<i>Lycopus sinuatus</i>
Common Thistle	<i>Cnicus lanceolatus</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Ponds	6.26	6.23	7.8	6.28			
Damp places				6.24			
Roadsides	7.4	7.10	7.8	6.26			
Ponds and bogs	6.26	7.18	7.12	7.10			
Woods				6.28			
Lawns and roadsides	7.5		6.29	6.29			
Swamps		6.30		6.30			
Wet, sandy soil				7.1			
Swamps	7.5	7.16	7.18	7.12			
Fields	7.24	7.5	7.13	7.13			
Roadsides, etc.				7.6			
Moist or sandy ground.		7.8	7.10	7.11			
Fields	7.10	7.18	7.8				
Damp woods		7.11	7.8	7.13			
Wet thickets	7.19	7.31	7.30	7.8			
Sandy swamps				7.9			
Ponds and ditches	7.19	7.20	7.18	7.9			
Low grounds	7.24	7.11	7.27				
Damp woods	7.13						
Waste grounds				7.13			
Damp soil				7.13			
Roadsides and pastures.	7.20	7.16	7.27	7.13			
Low grounds		7.16	7.27	8.18			
Damp waste ground	7.17						
Damp places	7.19	7.18					
Roadsides and pastures.	7.24	7.18	7.27				

COMMON.

COMMON NAME	SCIENTIFIC NAME
White Lettuce. Rattlesnake-root.	<i>Prenanthes alba</i>
Indian Pipe. Corpse Plant.	<i>Monotropa uniflora</i>
Tansy	<i>Tanacetum vulgare</i>
Mad-dog Scullcap	<i>Scutellaria lateriflora</i>
Burdock	<i>Arctium Lappa</i>
American Pennyroyal	<i>Hedeoma pulegioides</i>
Pearly Everlasting	<i>Anaphalis margaritacea</i>
Ground-nut. Wild Bean	<i>Apios tuberosa</i>
Turtlehead	<i>Chelone glabra</i>
Ladies' Tresses	<i>Spiranthes cernua</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Borders of woods	7.26	7.18					
Woods; especially pine woods.		7.18	7.28				
Roadsides		8.3	8.2	7.18			
Wet shady places	7.19	8.4					
Waste ground		7.20	7.27				
Dry fields	7.28						
Pastures		7.29					
Thickets		7.31					
Ditches, etc.	8.7	8.3	8.4				
Wet meadows			8.4				

FREQUENT.

COMMON NAME	SCIENTIFIC NAME
Small-flowered Crowfoot	<i>Ranunculus abortivus</i>
Dog Violet	<i>Viola canina</i> var. <i>Muhlenbergii</i>
Trillium. Wake Robin.	<i>Trillium cernuum</i>
Red Baneberry	<i>Actæa spicata</i> , var. <i>rubra</i>
Lousewort. Wood Betony.	<i>Pedicularis Canadensis</i>
Water Avens	<i>Geum rivale</i>
	<i>Zizia aurea</i>
Bastard Toadflax	<i>Comandra umbellata</i>
Hop-Clover. Yellow Clover	<i>Trifolium agrarium</i>
Sweet Flag	<i>Acorus Calamus</i>
Pitcher Plant. Side-saddle Flower. Huntsman's Cup.	<i>Sarracenia purpurea</i>
Rattlesnake-weed	<i>Hieracium venosum</i>
Black Snakeroot. Sanicle.	<i>Sanicula Marylandica</i>
Robin's Plantain	<i>Erigeron bellidifolius</i>
Blue-eyed Grass	<i>Sisyrinchium anceps</i>
Marsh Speedwell	<i>Veronica scutellata</i>
Sickle-pod	<i>Arabis Canadensis</i>
Fire-weed. Great Willow-herb.	<i>Epilobium angustifolium</i>
White Melilot	<i>Melilotus alba</i>
Chicory. Succory.	<i>Cichorium Intybus</i>
White Avens	<i>Geum album</i>
Night-flowering Catchfly	<i>Silene noctiflora</i>
Wood Lily	<i>Lilium Philadelphicum</i>
Swamp Milkweed	<i>Asclepias incarnata</i>
	<i>Asclepias obtusifolia</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Shady places	5.11	5.13	5.5	5.20			
Damp places			5.10				
Damp woods	5.15	5.13	5.12	5.16			
Rich woods	5.15	5.15	5.12	5.13			
Moist places	5.13	5.16	5.20	5.20			
Wet meadows	5.14		6.12	6.2			
Fields	5.19	5.15		5.19			
Dry ground	5.14	5.27	5.23				
Fields and roadsides	5.19	6.3	7.9	6.17			
Swamps and ditches	5.22	5.29					
Peat-bogs	5.25		5.30	6.18			
Dry woods	6.7	6.6		6.16			
Borders of woods, etc.	6.17	6.22	6.6	6.8			
Fields	6.8	6.22		6.10			
Meadows				6.15			
Bogs and ditches	7.13	6.22		6.29			
Rocky woods			6.23	6.25			
{ Low grounds, especially in recently burned districts		6.30	7.17	6.26			
Waste grounds		6.27	7.13	7.15			
Waste grounds and roadsides.	6.29	6.30	7.5	7.16			
Borders of woods	7.11	7.1	7.5	6.29			
Waste grounds				6.30			
Dry pastures and thickets.		6.30	7.7	7.8			
Swamps				7.2			
Sandy woods and fields.			7.8	7.10			

FREQUENT.

COMMON NAME	SCIENTIFIC NAME
Ragged Fringed-Orchis	<i>Habenaria lacera</i>
Blue Bells	<i>Mertensia Virginica</i>
Pipsissewa	* <i>Chimaphila umbellata</i>
Wild Yellow Lily	<i>Lilium Canadense</i>
Pipewort	<i>Eriocaulon septangulare</i>
Agrimony	<i>Agrimonia Eupatoria</i>
Rattlesnake Plantain	<i>Goodyera repens</i>
Rattlesnake Plantain	<i>Goodyera pubescens</i>
Bladderwort	<i>Utricularia cornuta</i>
(Anemone)	<i>Anemone Virginiana</i>
Monkey Flower	<i>Mimulus ringens</i>
Coral-root	<i>Corallorhiza multiflora</i>
Dodder	<i>Cuscuta Gronovii</i>
Cardinal Flower	<i>Lobelia Cardinalis</i>
Pinesap	<i>Monotropa Hypopitys</i>

Platanus

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Meadows, etc.		7.10	7.8				
Roadsides, escaped.				7.9			
Dry woods				7.9			
Moist meadows		7.14	7.9	7.12			
Sandy swamps, etc.		7.29		7.9			
Border of woods	7.11	7.10	7.11	7.12			
Dry woods	7.10	7.16					
Dry woods	7.10	7.29	7.28				
Ponds and ditches		7.29		7.10			
Woods and fields				7.13			
Bogs	7.13	7.18					
Dry woods	7.24	7.31	8.1				
Parasitic on shrubs and larger plants.	7.25	8.3	7.27				
Along brooks, etc.	7.25	8.1	8.2	7.26			
Oak and pine woods		7.31	7.30				

LOCALLY COMMON.

COMMON NAME	SCIENTIFIC NAME
Marsh Marigold	<i>Caltha palustris</i>
Downy Yellow Violet	<i>Viola pubescens</i>
Buckbean	<i>Menyanthes trifoliata</i>
Bunchberry. Dwarf Cornel.	<i>Cornus Canadensis</i>
Stemless Lady's Slipper. Moccasin- Flower.	<i>Cypripedium acaule</i>
Lupine	<i>Lupinus perennis</i>
Fringed Polygala	<i>Polygala paucifolia</i>
Spurge	<i>Euphorbia Cyparissias</i>
Arethusa	<i>Arethusa bulbosa</i>
Pale Corydalis	<i>Corydalis glauca</i>
Dwarf Ginseng. Ground-nut.	<i>Aralia trifolia</i>
Clintonia	<i>Clintonia borealis</i>
Slender Blue Flag	<i>Iris prismatica</i>
European Hawkweed	<i>Hieracium aurantiacum</i>
Catnip	<i>Nepeta Cataria</i>
Small Cranberry	<i>Vaccinium Oxycoccus</i>
Calopogon	<i>Calopogon pulchellus</i>
Wild Garlic	<i>Allium Canadense</i>
Honewort	<i>Cryptotaenia Canadensis</i>
Poke Milkweed	<i>Asclepias phytolaccoides</i>
Bladder Campion	<i>Silene Cucubalus</i>
Wild Leek	<i>Allium tricoccum</i>
Pogonia	<i>Pogonia ophioglossoides</i>
Cinquefoil	<i>Potentilla arguta</i>
Sundew	<i>Drosera intermedia</i> , var. <i>Americana</i> .
Goat's-Beard	<i>Tragopogon pratensis</i>

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Wet meadows, etc.				4.28			
Rich woods	5.13	5.6	5.8	5.18			
Bogs	5.13	5.27	5.20				
Moist woods	5.25	5.27	6.6				
Woods ; especially pine woods.	5.14	5.22	5.15	5.20			
Sandy soil	5.14	5.25	5.15				
Dry woods	5.14			5.27			
Waste places	5.19	5.22	5.18	5.23			
Swamps	6.6	5.27	6.4	6.9			
Rocks	5.30						
Rich woods				6.2			
Moist woods				6.15			
Wet meadows	6.16			6.15			
Fields	6.25	6.19		6.18			
Waste ground, etc.	7.6	6.19	7.18	7.17			
Bogs				6.22			
Bogs and meadows	7.5	7.5	7.5	6.23			
Moist places	7.6			6.26			
Moist shaded places				6.29			
Moist thickets				6.30			
Waste places	7.5	7.5	7.5	7.1			
Rich woods	7.4		7.17	7.2			
Wet meadows and bogs.	7.6	7.6		7.5			
Dry ground				7.10			
Bogs				7.14			
Fields				7.15			

LOCALLY COMMON.

COMMON NAME

SCIENTIFIC NAME

False Dragon-head

Physostegia Virginiana

Elecampane

Inula Helenium

(Cone-flower)

Rudbeckia laciniata

Water Lobelia

Lobelia Dortmanna

Wild Bergamot

Monarda fistulosa

Tick Trefoil

Desmodium nudiflorum

True-leaved Sassafras *Sassafras nudiflorum*

Yellow Henbane

Hycocyamus

Shin Leaf

Pyrola Secunda

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Roadsides				7.15			
Roadsides	7.24	8.11					
Low thickets	7.28	8.3					
Borders of ponds		7.29					
Pastures, etc.	8.1		7.30				
Dry woods			8.1				
						6.17	
						6.17	
						6.17	

RARE.

COMMON NAME

SCIENTIFIC NAME

Liver-leaf. Hepatica.

Hepatica triloba

Painted Cup

Castilleia coccinea

Yellow Melilot

Melilotus officinalis

Vetch

Vicia Cracca

Musk Mallow

Malva moschata

Twayblade

Liparis Læselii

Water Arum. Wild Calla.

Calla palustris

Tufted Loosestrife

Lysimachia thyrsiflora

Woad-waxen. Whin.

Genista tinctoria

Butterfly-weed. Pleurisy-root.

Asclepias tuberosa

Moth Mullein.

Verbascum Blattaria

DATES OF FLOWERING.

HABITAT	1895	1896	1897	1900	1901	1902	1903
Woods	4.29		4.30	4.30	4.17		
Meadows	5.22						
Waste ground	6.15						
Fields and thickets				6.15			
Fields	6.16						
Bogs				6.20			
Cold bogs				6.21			
Bogs				6.21			
Dry ground				7.2			
Gravelly soil	7.23	8.6					
Yards and fields		8.6					

FERNS

Botanical Names	Common Names	Rarity	Date of Fruiting	Habitat
* <i>Polypodium vulgare</i>	Polypody	Common	July	On rocks
<i>Adiantum pedatum</i>	Maidenhair	Rather rare	July	Rich woods
<i>Peris aquilina</i>	Brake or Bracken	Common	Aug.	Thickets and hillsides
<i>Woodwardia virginica</i>	Chain Fern	Locally common	July	Wet swamps
* <i>Asplenium ebeneum</i>	Spleenwort	Frequent	. . .	Rocky, open woods
<i>Asplenium thelypteroides</i>	Spleenwort	Locally common	July-Sept.	Rich woods
<i>Asplenium Filix-foemina</i>	Lady Fern	Very common	July	Moist woods
<i>Phegopteris polypodioides</i>	Beech Fern	Locally common	July	Damp woods
<i>Aspidium Thelypteris</i>	Marsh Fern	Very common	Aug.	Marshes and roadsides
<i>Aspidium Noveboracense</i>	New York Fern	Very common	July	Swamps and moist thickets
* <i>Aspidium spinulosum</i> , variety <i>intermedium</i>	<i>Spinulose Fern</i>	Very common	July	Damp woods
* <i>Aspidium Bootii</i>	<i>Boot's Fern</i>	Frequent	July	Wet thickets
* <i>Aspidium cristatum</i>	Crested Shield Fern	Frequent	July	Swamps
* <i>Aspidium marginale</i>	<i>Marginal Fern</i>	Common	Aug.	Rocky hillsides in rich woods
* <i>Aspidium acrostichoides</i>	Christmas Fern	Frequent	July	Rocky woods
* <i>Aspidium acrostichoides</i> , variety <i>incisum</i>	Locally common	July	Rocky woods

17 <i>Cystopteris fragilis</i>	Bladder Fern	Locally common	July	Rocky woods
18 <i>Onoclea sensibilis</i>	Sensitive Fern	Very common	July	Moist meadows and thickets
19 <i>Onoclea Struthiopteris</i>	Ostrich Fern	Rare	July	Rich soils; in shade or in the open
20 <i>Woodisia Ilizensis</i>	Rusty Woodsia	Locally common	June	Exposed rocks
21 <i>Woodisia obtusa</i>	<i>Woodisia obtusa</i>	Not common	. . .	Rocky banks
22 <i>Dicksonia pilosiuscula</i>	<i>Dicksonia pilosiuscula</i>	Very common	. . .	Moist and shady places
23 <i>Osmunda regalis</i>	<i>Regalis</i> Flowering Fern	Common	May-June	Swamps and wet woods
24 <i>Osmunda Claytoniana</i>	Interrupted Fern	Common	May	Moist grounds
25 <i>Osmunda cinnamomea</i>	Cinnamon Fern	Common	May	Swamps and low thickets

OPHIOGLOSSACEÆ

ADDER'S-TONGUE

FAMILY

26* <i>Botrychium ternatum</i> , variety dissectum	<i>ternatum</i> Moonwort	Common	. . .	In almost all sorts of localities except deep woods
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NOTE—Other varieties of this species are found in the town in abundance, but the subject is so confused that, from the few data I have, I do not feel able to state which ones are to be found.

27 <i>Botrychium Virginianum</i>	<i>Virginianum</i> Moonwort	Locally common	June-July	Rich woods
28 <i>Botrychium lanceolatum</i>	<i>lanceolatum</i> Moonwort	Rare	Aug.-Sept.	Moist woods
29 <i>Botrychium matricariaefolium</i>	<i>matricariaefolium</i> Moonwort	Very rare	Aug.-Sept.	Moist woods
30 <i>Ophioglossum vulgatum</i>	<i>vulgatum</i> Adder's Tongue	Rare	July	Boggy pastures

NOTE.—

31 <i>Aspidium simulatum</i>	<i>simulatum</i> Moss-fern	Not common	Aug.	Hummocks in woodland swamps
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I have seen this in North Andover, a half-mile or less from the Andover line. Probably it also occurs in Andover.

The ferns marked with asterisks (*) are partly or wholly evergreen.

BOOKS OF REFERENCE

MANUAL OF THE BOTANY OF THE NORTHERN UNITED STATES. By Asa Gray. Sixth Edition (revised by Sereno Watson and John M. Coulter.) American Book Company. \$1.75.

THE FLORA OF ESSEX COUNTY. By John Robinson. Salem, Essex Institute, 1880. This book has not been brought up to date, but it is interesting and helpful. It contains the names of the plants of the county, scientifically arranged, with localities for the less common species.

POPULAR BOOKS

* HOW TO KNOW THE WILD FLOWERS. Mrs. William Starr Dana (Frances Theodora Parsons.) A popular book, with the flowers classified according to color, and with a brief description and comment in regard to each. Charles Scribner's Sons. \$2.00.

* ACCORDING TO SEASON. By the same author. A smaller and less interesting book. The plants are arranged according to the dates of their flowering. Charles Scribner's Sons. 1894. 75c.

* A GUIDE TO THE WILD FLOWERS. By Alice Lounsberry. With an introduction by Dr. N. L. Britton. New York, Frederick A. Stokes Co. 1899. The plants are arranged according to their habitats with indexes according to the colors of their flowers. A larger book than "How To Know the Wild Flowers." The colored plates are very poor. \$2.50.

* In the Andover Public Library.

ON FERNS

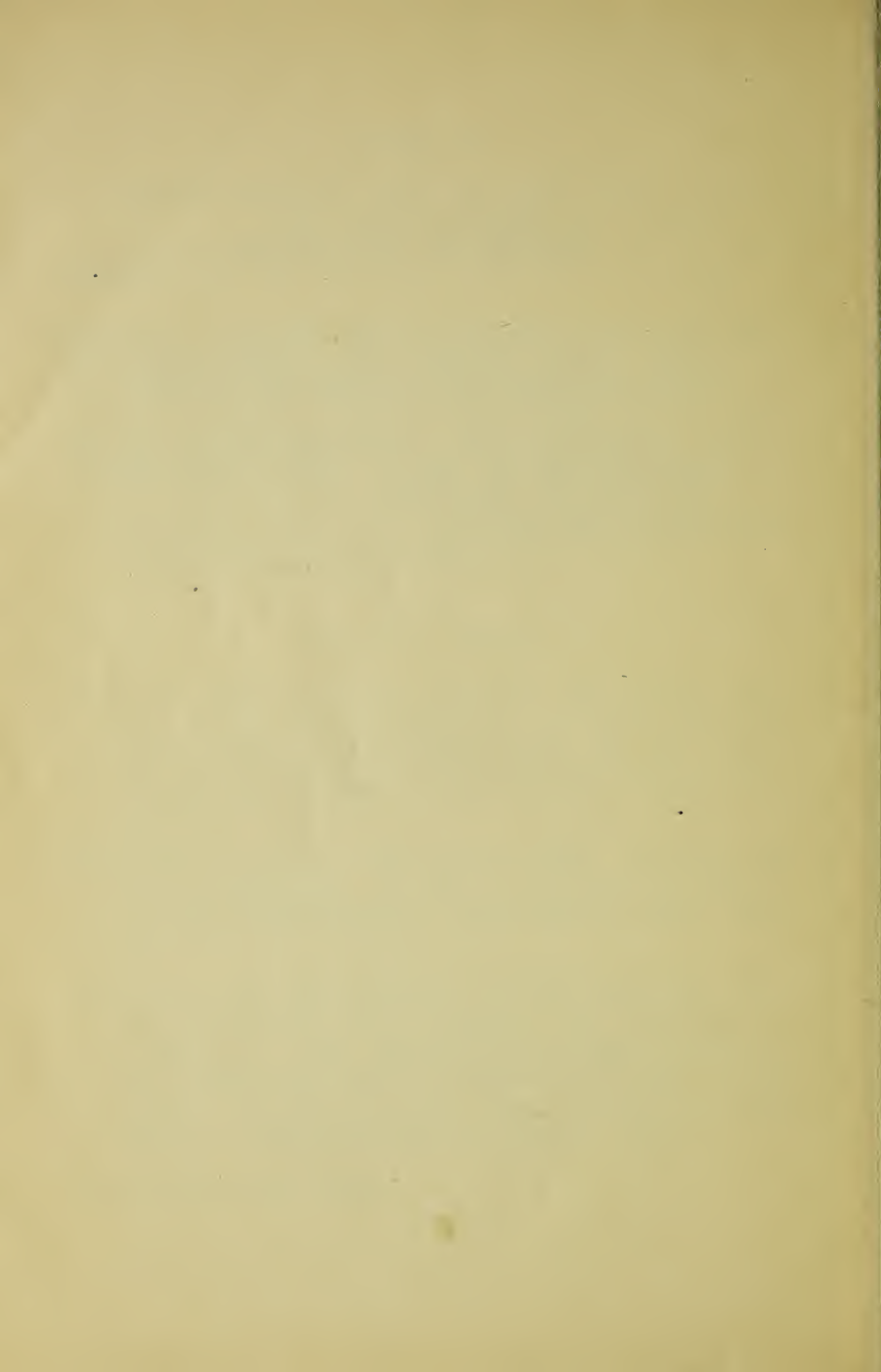
FERNS IN THEIR HOMES AND OURS. By John Robinson. A manual for the cultivation of ferns. \$1.50.

* OUR NATIVE FERNS AND THEIR ALLIES. By L. M. Underwood. \$1.00.

THE FERNS AND EVERGREENS OF NEW ENGLAND. By Edward Knobel. Bradlee Whidden & Co. A small pamphlet, containing outline illustrations of our ferns and their allies. 50c.

* HOW TO KNOW THE FERNS. By Frances Theodora Parsons. In the same style as "How To Know the Wild Flowers." Charles Scribner's Sons. \$1.50.

* In the Andover Public Library.





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